

WATER SUPPLY SYSTEM SIZING USING APPENDIX "A"

Effective May 1, 2007

The following information is requested so the CLV Building Department will be able to verify the sizing of the water piping correctly when the 2006 UPC, Appendix "A" is used. Please provide supporting documents for the information provided. While the information contained in this form is believed to be accurate, this information should not be used or relied upon for any specific application without competent professional examination and verification of its accuracy, suitability and applicability by a competent licensed mechanical engineer, architect, or other licensed professional. Anyone making use of this information assumes all liability arising from such use.

PRELIMINARY INFORMATION:		
1) Minimum average daily service pressure		PSI
2) Water meter and RPPA size	/	Inches
3) Water meter and RPPA pressure loss	/	PSI TotalPSI loss
DEMAND LOAD: 4) Total Fixture Units (From Table A-2). Provide list of fixtures & units for each)		FU
5) Flow in gallons per minute		GPM
6) Continuous supply demands (sprinklers, A/C, etc.)		GPM
7) Line 5 added to line 6 equals the total flow		TOTAL GPM through Meter
PERMISSIBLE FRICTION LOSS: 8) Minimum residual pressure desired (15 lbs. min.)		PSI
9) Elevation of highest fixture above street water main		Feet
10) Static elevation pressure loss equals maximum elevation multiplied by 0.43		
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11) The average minimum daily service pressure minus (the static pressure loss + residual pressure loss) = pressure available for friction loss in supply piping.	oressu	re desired + meter pressure loss +
PSI - (PSI + PSI + PSI + PSI)	= .	PSI
(minimum daily service pressure) (static loss, residual pressure, meter loss, RPPA loss)		(pressure loss available for friction loss in the supply pipes)
12) 100 x <u>pressure available for friction loss</u> = allowable friction loss per 100 feet of total developed length of piping total lineal feet +% fitting loss	f pipir	g
100 x =PSI		
PSI per 100 ft. of piping		
13) Using the above information the building supply, branches and risers can be sized. Check below which chart issued.		
Chart A-4 Chart A-5 Chart A-6	Engi	neer / Contractor's Seal, Signature & Date
Chart A-5		